

JP63205935

RESIN-SEALED TYPE SEMICONDUCTOR DEVICE EQUIPPED WITH HEAT SINK

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Application No. 62037850 , Filed 19870223 , Published 19880825

Abstract:

PURPOSE: To enhance the heat-dissipating performance and to reduce the ON resistance by a method wherein, after a circuit component has been mounted on a bed of a lead frame, it is fixed by laying a ceramic or the like between the bed and a heat sink so that this assembly can be resin-sealed.

CONSTITUTION: A semiconductor device 3 is fixed to a bed part 2 of a lead frame 1. Then, an electrode which has been formed on the semiconductor device 3 is connected to an external lead of the lead frame by using a metal thin wire 5. Then, a heat sink 8 is provided an Ag paste 9 is coated on one face of the heat sink a ceramic plate 6 is mounted on the face so as to be united in addition, an adhesive 7 is coated on the ceramic plate 6 the bed part 2 where the semiconductor device 3 is fixed is bonded to the ceramic plate. Then, this assembly is put in a metal mold and is sealed by using a mold resin 10 in such a way that one plane face of the heat sink 8 is exposed.

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Int'l Class: H01L02328 H01L02334

MicroPatent Reference Number: 000404168

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